Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-05-02-23 **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamiappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No: 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/W(1)/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /01
Sample Type	:	Birla Super 53grade
References to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DET RMINATION OF DENSITY , Clause 6
Date of test	:	03-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.72	--
2	Finess by Air permeability method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.13	--
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO BANGALORE
Sig
Date

R KARTHIK RECHAN
Authorised Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-23** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 17th main depot Muniswamappa layout, K.G halli and surrounding area in ward no.12 Shettyhalli, Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/325/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-23 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	355	355	2.4	97.6	90-100
3	20 mm	7102	7457	49.7	50.3	30-70
4	10 mm	4989	12446	83.0	17.0	10-35
5	4.75 mm	2218	14664	97.8	2.2	0-5
6	Pan	336	15000	100.0	0	---

CIVIL PRO Sig..... Date.....

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